***CLASS COPY – DO NOT WRITE ON***

CW 23: Quadratic Functions Day 1

**Honors Geometry**

1. Graph the function by completing the table of values below.
2. Graph the function by completing the table of values below.

How is the graph of different than the graph of ? Describe at least 3 things you notice about the graphs.

1. Graph the function
2. Graph

How is the graph of #3 different than the graph of #4? What do you think causes this main difference?

1. Graph:
2. Graph:

What general observations can you make about the graphs from 1 – 6?

1. Complete the table below given the information and the fact that the axis of symmetry is located at x =0.

Label the **axis of symmetry, vertex and solutions** on your graph.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | -3 | -2 | -1 | 0 | 1 | 2 | 3 |
|  | 5 | 0 | -3 | -4 |  |  |  |

For the following quadratics, graph the function and identify the axis of symmetry and vertex.

1. Graph .
2. Graph .
3. Graph .

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